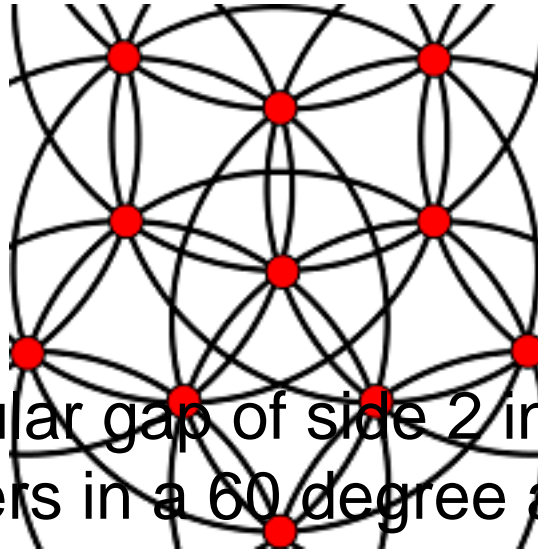


CSASC 2013



Contribution ID : 28

A triangular gap of side 2 in a sea of dimers in a 60 degree angle

Content :

We consider a triangular gap of side 2 in a 60 degree angle on the triangular lattice whose sides are zigzag lines. We study the interaction of the gap with the corner as the rest of the angle is completely filled with lozenges (a lozenge is a unit rhombus consisting of two lattice triangles that share an edge). We show that the resulting correlation is governed by the product of the distances between the gap and its five images in the sides of the angle. This provides a new aspect of the parallel between the correlation of gaps in dimer packings and electrostatics developed by the first author in previous work.

Primary authors : CIUCU, Mihai (Indiana University) ; FISCHER, Ilse (University of Vienna)

Co-authors :

Presenter : CIUCU, Mihai (Indiana University)

Session classification : --not yet classified--

Track classification : Combinatorics

Type : Oral presentation